

LEVITSKIY, M. YA.

Novye raboty v oblasti rezanii metallov. Moskva, Mashgiz, 1951. 160 p.

(New works in the field of metal cutting.)

SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library of Congress, 1953.

LEVITSKIY, M. YA.

PHASE I TREASURE ISLAND BIBLIOGRAPHICAL REPORT

AID 488 - I

BOOK

Call No.: AF639674

Author: LEVITSKIY, M. YA.

Full Title: FUNDAMENTALS OF THREAD MILLING

Transliterated Title: Osnovy rez'bofrezerovaniya

PUBLISHING DATA

Originating Agency: None

Publishing House: State Scientific and Technical Publishing House of
Machine-Building Literature (Mashgiz). Ukrainian Branch

Date: 1953 No. pp.: 156 No. of copies: 12,000

Editorial Staff

Editor: Sivay, A. V., Dotsent

Appraisers: Preys, G. A., Kand. of Tech. Sci., Dotsent
Rudnik, S. S., Prof.

PURPOSE: The book is intended for thread-milling machine operators and
adjusters, and foremen in machine shops, as a help in their work
and in order to extend their knowledge of thread-milling processes.

TEXT DATA

Coverage: This is a specialized study on thread milling. It discusses
the milling of short threads by means of group milling cutters, thread
milling with cutting disks and high-speed methods. Technological pro-
cesses, cutting tools, various devices and thread-milling machines are

! . Osnovy rez'bofrezerovaniya

AID 488 - I

described in detail. The selection of cutting conditions is considered. The book deals also with the types and designs of threads and with methods of their control. Special attention is given to the Soviet method of high-speed thread milling widely used by Stakhanovites. The book contains many illustrations, diagrams and tables.

No. of References: 21 (1937-1951)
Facilities: Plant im. Molotov

2/2

KIRIYENKO, Yevgeniy Grigor'yevich; LUTSYK, Vladimir Iosifovich; PISKORSKIY,
Georgiy Avgustinovich; LEVITSKIY, M.Ya., kand.tekhn.nauk, retsenzent;
SIVAY, A.V., dotsent, red.; SERDYUK, V.K., inzh., red.

[Cold stamping] Kholodnaya shtampovka. Moskva, Gos.nauchno-tekhn.
izd-vo mashinostr.lit-ry, 1959. 165 p. (MIRA 12:10)
(Sheet-metal work) (Drawing (Metalwork))

PISKORSKIY, Georgiy Avgustinovich; RABINOVICH, Avraam Nakhimovich;
LEVITSKIY, M.Ye., kand.tekhn.nauk, retsenzent; ONISHCHENKO,
N.P., inzh., red.

[Instruments for checking cylindrical threads] Pribory dlia
kontrollia tsilindricheskikh rez'b. Moskva, Gos.nauchno-tekhn.
izd-vo mashinostroit.lit-ry, 1960. 117 p. (MIRA 13:4)
(Measuring instruments) (Screw threads)

LEVITSKIY, Mikhail Yakovlevich, kand. tekhn. nauk; LUTSYK, V.I., inzh.,
retsenzent; NIKIFOROVA, R.A., inzh., red.; GORNOSTAYPOL'SKAYA,
M.S., tekhn. red.

[Wire potentiometers] Provolochnye potentsiometry. Moskva, Gos.
nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1961. 113 p.
(MIRA 14:9)

(Potentiometers)

KOGAN, Kopel' Borisovich; LEVITSKIY, Mark Yur'yevich; SOSNOV, V.D.,
otv. red.; ABRAMBARCHUK, F.I., red. izd-va; LOMILINA, L.N.,
tekhn. red.

[GSh2 entry loader] Shtrekovi gruzchik GSh2. Moskva, Gosgortekh-
izdat, 1962. 39 p. (MIRA 15:6)

(Coal mining machinery)
(Loading and unloading)

MAGAZINER, Z.; LEVITSKIY, N.

Measuring the most important factor in the increase of labor
productivity at an enterprise. Sots.trud 6 no.3:27-35 Mr '61.

(Instrument industry--Labor productivity)

(MIRA 14:3)

DIDOVSKI, S.P.; LEVITSKIY, S.L.

Introduce the achievements of veterinary medicine into the practice of animal husbandry. Veterinariya 72 no. 7:20-23 51 '61. (MIRA 12:1)

1. Nachal'nik Upravleniya veterinarii Ministerstva proizvodstva i zagotovok sel'skokhozyaystvennykh produktov USSR (for Ilyavetskiy).
2. Glavnyy veterinarnyy vrach Upravleniya veterinarii Ministerstva proizvodstva i zagotovok sel'skokhozyaystvennykh produktov USSR (for Ilyavetskiy).

EYGENSON, M. S.; LEVITSKIY, S.L.

"Impulse of solar activity in Wolf numbers and allied characteristics,"
Astron. Zhur.. 17, No 6, 1940.

Report U-1518, 23 Oct 1951

LEVITSKIY, N. I.

The synthesis of mechanisms; according to Chebyshev Moskva, Izd-vo Akademii nauk
SSSR, 1946. 167 p. (52-42219)

QA863.L65

"APPROVED FOR RELEASE: 07/12/2001

CIA-RDP86-00513R000929630004-8

APPROVED FOR RELEASE: 07/12/2001

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APPROVED FOR RELEASE: 07/12/2001

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practically negligible. The approximating curve $y(x)$ is

through C to CU . The following approximation is obtained
on CU by the strong box from a point C to a point U .

Oct 48

USSR/Engineering

Mathematics

Mathematics, Applied

PA 21/49731

"Synthesis of an Articulated Four-Link Mechanism, Rod."
Given the Trajectory of a Point on the Connecting Rod,
M. F. Levitskiy, Inst Mach Studies, Acad Sci USSR,

3 3 104 pp

"Iz Ak Nauk SSSR, Otdel Tekh Nauk" No 10

Given the plane curve $y = f(x)$ (represented by its
equation or table of values), it is required to find
the dimensions and position of the articulated four-
link mechanism on whose connecting rod there exists
a point M, which describes the given curve.

21/49731

Oct 48

USSR/Engineering (Contd)

Reduces expression for parameters of mechanism, and
evaluates them by method of least squares. Submitted
Jul 48.

21/49731

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CIA-RDP86-00513R000929630004-8

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CIA-RDP86-00513R000929630004-8"

LEVITSKIY, N.I.

"Synthesis of a Hinged Four-Link Mechanism for a Given Trajectory in the Case of Four and Five Computed Parameters." Works of the Seminar on the Theory of Machines and Mechanisms, Vol VII, No 27, Academy of Sciences USSR, 1949.

LEVITSKIY, N. I.

"Synthesis of a hinged four-link mechanism according to a given law of motion,"
Works of the Seminar of the theory of machines and mechanisms, vol VII, no 28,
1949.

LEVITSKIY, N. I.

Doc Tech Sci

Dissertation: "Designing the Plane Mechanisms with Lower Pairs." 9/6/50

Inst of Machine Science, Acad Sci USSR

SO Vecheryaya Moskva
Sum 71

"APPROVED FOR RELEASE: 07/12/2001

CIA-RDP86-00513R000929630004-8

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APPROVED FOR RELEASE: 07/12/2001

CIA-RDP86-00513R000929630004-8"

LEVITSKIY, N.I.

Chebyshev's kinematic synthesis of mechanisms. Trudy Sem.teor.mash. 12
no.48:4-12 '52. (MLRA 6:6)

(Machinery, Kinematics of)

LEVITSKIY, N.I.

BRAVICHEV, V.A., kandidat tekhnicheskikh nauk, dotsent; BRODOVICH, M.V., kandidat tekhnicheskikh nauk; VLASOV, V.I., kandidat tekhnicheskikh nauk, retsensent, redaktor; YEGORNOV, A.N., professor, retsensent, redaktor; ZOBININ, N.P., doktor tekhnicheskikh nauk, professor; IVANNIKOV, D.G., kandidat tekhnicheskikh nauk, dotsent; KIRKIN, V.G., doktor tekhnicheskikh nauk, professor; KOTOV, O.K., kandidat tekhnicheskikh nauk; MARIYENBAKH, L.M., doktor tekhnicheskikh nauk, professor; MASHONIN, P.A., inzhener, RUBINSHTEYN, S.A., inzhener, RUDOY, M.L., inzhener, YUDIN, D.L., kandidat tekhnicheskikh nauk, dotsent, redaktor; PETROV, N.I., inzhener, retsensent; SIDOROV, S.I., inzhener, retsensent; SOKOLOV, I.G., kandidat tekhnicheskikh nauk, retsensent; BERESTOVA, Ye.I., inzhener, retsensent; DOBOKHIN, P.N., kandidat tekhnicheskikh nauk, retsensent; RUSTEN, S.L., kandidat tekhnicheskikh nauk, dotsent, redaktor; LARIN, M.N., laureat Stalinskoy premii, professor, doktor tekhnicheskikh nauk, retsensent; SOKOLOV, A.V., inzhener, retsensent; GRUDOV, P.P., laureat Stalinskoy premii, dotsent, kandidat tekhnicheskikh nauk, retsensent; DOHNER, L.L., inzhener, retsensent; ZOBININ, professor, doktor tekhnicheskikh nauk, retsensent; BELAVENTSEV, N.V., inzhener, retsensent; SYCHEV, B.P., dotsent, retsensent; SHKOL'NIK, L.M., kandidat tekhnicheskikh nauk, retsensent; LOBANOV, D.V., kandidat tekhnicheskikh nauk, dotsent, retsensent, redaktor; MASHONIN, P.A., inzhener, retsensent, redaktor; OBUK'OV, A.V., inzhener, redaktor; BELETSKIY, D.G., kandidat tekhnicheskikh nauk, dotsent, redaktor; ODING, I.A., redaktor; LEVITSKIY, kandidat tekhnicheskikh nauk, dotsent, redaktor; YUDSON, D.M., tekhnicheskii redaktor

(Continued on next card)

BRAVICHEV, V.A, kandidat tekhnicheskikh nauk, dotsent; & other: (Card 2)

[Railroad man's technical manual] Tekhnicheskii spravochnik zheleznodorozhnika. Red.kollegiia; V.I. Vlasov. A.M.Egornov, N.P. Zobnin, E.F Budoï (Glav.red.) A.V.Sokolov. Moskva, Gos.transportnoe zhel-dor.izd-vo. Vol. 12 [Processing metals at railroad transport enterprises] Obrabotka metallov na predpriyatiyakh zhelezno-dorozhnogo transporta. Otvet.red. N.P.Zobnin. 1954. 671 p.(MLRA 8:11)

1. Chlen-korrespondent, AN SSSR (for Oding)
(Mechanical engineering)

LEVITSKY, N. I.

3

USSR .

1 - F/W

Levitskiy, N. I., and Sahbazyan, K. H. The synthesis of spatial four-link mechanisms with lower pairs. Trudy Sem. Teor. Mashin i Meh. 14, no. 54, 5-24 (1954). (Russian)

The four-bar mechanism made of two skew shafts carrying cranks joined by a connecting-rod through ball-and-socket joints can be specified by eight parameters. By analytical geometry, the relations between these parameters and the variable angles are derived. These equations may be used for approximating a desired curve by calculating the required parameters to pass the curve through selected points or by other curve-fitting processes (least squares or other criteria). The equations are used in a numerical example in which eight parameters are calculated. Special cases are considered in which fewer parameters, down to only three, are subject to calculation.

M. Goldberg.

JP CH

LEVITSKIY N.I.

ANDREYEV, A.B.; ANTONOV, A.I.; ARAPOV, P.P.; BARMASH, A.I.; BEDNYAKOVA,
A.B.; BENIN, G.S.; BERESNEVICH, V.V.; VERNISHTSEY, S.A.; BITUTSKOV,
V.I.; BLYUMENBERG, V.V.; BOMCH-BEUYKOVICH, M.D.; BORMOTOV, A.D.;
BULGAKOV, N.I.; VEKSLER, B.A.; GAVRILECKO, I.V.; GENDLER, Ye.S.,
[deceased]; GERLIVANOV, N.A., [deceased]; GIBSHMAN, Ye.Ye.;
GOLDOVSKIY, Ye.M.; GOHBUNOV, P.P.; GORYALNOV, F.A.; GRIMBERG, B.G.;
GRYUNER, V.S.; DAKOVSKIY, N.F.; DZEVUL'SKIY, V.M., [deceased];
DREMAYLO, P.G.; DYBETS, S.G.; D'YACHENKO, P.F.; DYURNBAUM, N.S.,
[deceased]; YEGORCHENKO, B.F. [deceased]; YEL'YASHKEVICH, S.A.;
ZHERREBOV, L.P.; ZAVEL'SKIY, A.S.; ZAVEL'SKIY, F.S.; IVANOVSKIY,
S.R.; ITKIN, I.M.; KAZHDAN, A.Ya.; KAZHINSKIY, B.B.; KAPLINSKIY, S.V.;
KASATKIN, F.S.; KATSAUROV, I.M.; KITAYGORODSKIY, I.I.; KOLESHNIKOV,
I.F.; KOLOSOV, V.A.; KOMAROV, N.S.; KOTOV, B.I.; LINDE, V.V.;
LEBKEDV, H.V.; LEVITSKIY, N.I.; LOKSHIN, Ya.Yu.; LUTTSAU, V.K.;
MANNERBERGER, A.A.; MIKHAYLOV, V.A.; MIKHAYLOV, N.M.; MURAV'YEV, I.M.;
NYDEL'MAN, G.M.; PAVLYSHKOV, L.S.; POLUYANOV, V.A.; POLYAKOV, Ye.S.;
POPOV, V.V.; POPOV, N.I.; RAKHLIN, I.Ye.; RZHEVSKIY, V.V.; ROZENBERG,
G.V.; ROZENTRETER, B.A.; ROKOTYAN, Ye.S.; RUKAVISHNIKOV, V.I.;
RUTOVSKIY, B.N. [deceased]; RYVKIN, P.M.; SMIRNOV, A.P.; STEPANOV, G.Yu.
STEPANOV, Yu.A.; TARASOV, L.Ya.; TOKAREV, L.I.; USPASSKIY, P.P.;
FEDOROV, A.V.; FERRE, N.R.; FRENKEL', N.Z.; KHEYFETS, S.Ya.; KHLOPIN,
M.I.; KHODOT, V.V.; SHAMSHUR, V.I.; SHAPIRO, A.Ye.; SHATSOV, M.I.;
SHISHKINA, N.N.; SHOR, E.R.; SHPICHENETSKIY, Ye.S.; SHPRINK, B.M.;
SHTERLING, S.Z.; SHUTYY, L.R.; SHUKHGAL'TER, L. Ya.; KHVAYS, A.V.;
(Continued on next card)

ANDREYEV, A.B. (continued) Card 2.

YAKOVLEV, A.V.; ANDREYEV, Ye.S., retsensent, redaktor; BERKIN-
 GYM, B.M., retsensent, redaktor; BERMAN, L.D., retsensent, redaktor;
 BOLTINSKIY, V.N., retsensent, redaktor; BONCH-BRUYEVICH, V.L.,
 retsensent, redaktor; VELLER, M.A., retsensent, redaktor; VINOGRADOV,
 A.V., retsensent, redaktor; GUDTSOV, N.T., retsensent, redaktor;
 DEGTAREV, I.L., retsensent, redaktor; DEM'YANYUK, F.S., retsensent;
 redaktor; DOBROSMYSLOV, I.N., retsensent, redaktor; YELANCHIK, G.M.
 retsensent, redaktor; ZHEMOCHKIN, D.N., retsensent, redaktor;
 SHURAVCHENKO, A.N., retsensent, redaktor; ZLODEYEV, G.A., retsensent,
 redaktor; KAPLUNOV, R.P., retsensent, redaktor; KUSAKOV, M.M.,
 retsensent, redaktor; LEVINSON, L.Ye., [deceased] retsensent, redaktor;
 MALOV, N.N., retsensent, redaktor; MARKUS, V.A. retsensent, redaktor;
 METELITSYN, I.I., retsensent, redaktor; MIKHAYLOV, S.M., retsensent;
 redaktor; OLIVETSKIY, B.A., retsensent, redaktor; PAVLOV, B.A.,
 retsensent, redaktor; PANYUKOV, M.P., retsensent, redaktor; PLAKSIN,
 I.N., retsensent, redaktor; RAKOV, K.A. retsensent, redaktor;
 RZHAVINSKIY, V.V., retsensent, redaktor; RINBERG, A.M., retsensent;
 redaktor; BOGOVIN, N. Ye., retsensent, redaktor; HUDENKO, K.G.,
 retsensent, redaktor; RUTOVSKIY, B.N., [deceased] retsensent,
 redaktor; RYZHOV, P.A., retsensent, redaktor; SANDOMIRSKIY, V.B.,
 retsensent, redaktor; SKRAMTAYEV, B.G., retsensent, redaktor;
 SOKOV, V.S., retsensent, redaktor; SOKOLOV, N.S., retsensent,
 redaktor; SPIVAKOVSKIY, A.O., retsensent, redaktor; STRAMENOV, A.Ye.,
 retsensent, redaktor; STRELETSKIY, N.S., retsensent, redaktor;
 (Continued on next card)

ANDREYEV, A.V., (continued) Card 3.

TRET'YAKOV, A.P., retsenzent, redaktor; ZAYKMAN, Ye.M., retsenzent, redaktor; KHACHATYROV, T.S., retsenzent, redaktor; CHERNOV, H.V., retsenzent, redaktor; SHERGIN, A.P., retsenzent, redaktor; SHESTOPAL, V.M., retsenzent, redaktor; SHESHKO, Ye.F., retsenzent, redaktor; SHCHAPOV, N.M., retsenzent, redaktor; YAKOBSON, M.O., retsenzent, redaktor; STEPANOV, Yu.A., Professor, redaktor; DEM'YANYUK, F.S., professor, redaktor; ZNAMENSKIY, A.A., inzhener, redaktor; PLAKSIN, I.N., redaktor; RUTOVSKIY, B.N. [deceased] doktor khimicheskikh nauk, professor, redaktor; SHUKHGAL'TER, L. Ya, kandidat tekhnicheskikh nauk, dotsent, redaktor; BRESTINA, B.S., redaktor; ZNAMENSKIY, A.A., redaktor.

(Continued on next card)

ANDREYEV, A.V. (continued) Card 4.

[Concise polytechnical dictionary] Kratkii politekhnicheskii slovar'. Redaktsionnyi sovet; IU.A.Stepanov i dr. Moskva, Gos. izd-vo tekhniko-teoret. lit-ry, 1955. 1136 p. (MLRA 8:12)

1. Chlen-korrespondent AN SSSR (for Plaksin)
(Technology--Dictionaries)

LEVITSKIY, N.I.
KOZHIN, V.D.; LEVITSKIY, N.I.; TSUKHANOVA, Ye.A.

Expansion of the theory of hydraulic mechanisms. rev. AF
SSSR. Otd. tekhn. nauk. no. 241 F '55. (MIRA 8:8)
(Hydraulic machinery)

SOV/124-57-3-2704

Translation from: Referativnyy zhurnal. Mekhanika, 1957, Nr 3, p 12 (USSR)

AUTHOR: Levitskiy, N. I.

TITLE: The Cam Drive in Automatic Profile-cutting Lathes and Lines (Kulachkovyy privod v avtomaticheskikh stankakh i liniyakh)

PERIODICAL: V sb.: Avtomatizatsiya tekhnol. protsessov v mashinostr. Privod i upravleniye mashinami. Moscow, AN SSSR, 1956, pp 23-48

ABSTRACT: The author examines the selection of a law governing the motion of the driven link of a cam mechanism to satisfy the conditions of a) minimum pressure of the driven link on the profile, b) simplicity of the machining of the profile, c) minimal energy consumption during the working of the mechanism, and d) conjoint fulfillment of both the technological process and an elevated output. The author gives a classification and characterization of the fundamental laws governing the motion. It is shown that the selection of the laws governing the velocity v and acceleration a should be such that both sharp and gentle impacts be avoided. In order to decrease the maximal values of v and a , the center of gravity of the a graph should be displaced toward the

Card 1/2

SOV/124-57-3-2704

The Cam Drive in Automatic Profile-cutting Lathes and Lines

beginning of the time interval. However, minimal values of a are advantageous only when there are no sharp variations in a . Sharp variations in a and v lead to elevated dynamic loads owing to the generation of oscillations due to the elasticity of the links; such loads may significantly exceed the nominal values (i.e., those corresponding to the a graph). The author provides a method for the calculation of the springs employed to close the kinematic chain, the maximum torque moment on the cam, and the maximal pressure of the driven link on the cam profile. It is pointed out that profiles obtained by means of roll forging are most desirable from the point of view of the process of machining technology and also because they afford the greatest degree of accuracy. Examples are adduced.

V. N. Geminov

Card 2/2

SOV/124-58-1-158

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 1, p 18 (USSR)

AUTHORS: Levitskiy, N. I., Cherkudinov, S. A.

TITLE: Modern Trends in the Development of the Theory of Synthesis of Mechanisms for Automatic Machinery (Sovremennyye napravleniya v razvitii teorii sinteza mekhanizmov mashin-avtomatov)

PERIODICAL: Sessiya AN SSSR po nauchn. probl. avtomatiz. proiz-va, 1956, Vol 6. Moscow, AN SSSR, 1957, pp 81-92

ABSTRACT: Bibliographic entry

Card 1/1

LEVITSKIY N.I. (Dr. Tech. Sci.) CHERKUNINOV (Cand. Tech. Sci.)

Basic tasks of planning mechanisms of automatic machines.

paper read at the Session of the Acad. Sci. US R, on Scientific Problems of
Automatic Production, 15-20 October 1956
Avtomatika i telemekhanika, No. 2 p. 182-192, 1957

9015229

Levit'skiy, N. I.
25(2)

PHASE I BOOK EXPLOITATION

SOV/2564

Akademiya nauk SSSR. Institut mashinovedeniya. Seminar po
teorii mashin i mekhanizmov

Trudy, tom 18, vyp. 69 (Transactions of the Institute of Mechanical
Engineering, Academy of Sciences, USSR. Seminar on the Theory
of Machinery and Mechanisms, Vol 18, No. 69) Moscow, Izd-vo
AN SSSR, 1958. 69 p. Errata slip inserted. 2,500 copies
printed.

Ed. of Publishing House: V.R. Beylin; Tech. Ed.: N.F. Yegorova;
Editorial Board: I.I. Artobolevskiy, Academician (Resp. Ed.);
G.G. Baranov, Doctor of Technical Sciences, Professor;
V.A. Gavrilenko, Doctor of Technical Sciences, Professor;
V.A. Zinov'yev, Doctor of Technical Sciences, Professor;
A.G. Kobrinskiy, Doctor of Technical Sciences; N.I. Levitskiy,
Doctor of Technical Sciences, Professor; N. P. Rayevskiy,
Candidate of Technical Sciences; L.N. Reshetov, Doctor of
Technical Sciences, Professor; and M.A. Skuridin, Doctor of
Technical Sciences, Professor.

Card 1/4

Transactions of the Institute (Cont.)

SOV/0054

PURPOSE: This book is intended for engineers interested in
the theory of machinery and mechanisms.

COVERAGE: This collection of scientific papers deals with
the synthesis and analysis of types of linkage, an investigation
of vibratory mechanisms, and methods of calculating the
nonuniformity of tape movement in tape-feeding mechanisms
of memory units. References follow several of the articles.

TABLE OF CONTENTS:

Preface

3

Artobolevskiy, I.I. [Academician]. A Note on Some New
Mechanisms

5

The author discusses the theory of a new universal
"konikograf" (a device for drawing conic sections),
the application of the inversion principle in the
construction of a straight-line mechanism, and the
theory of exact-translation mechanisms.

Card 2/4

Transactions of the Institute (Cont.)

SOV/2564

Gazarov, A.T. [Candidate of Technical Sciences]. Problem of Synthesizing Four-bar Linkages With Maximum Angles of Transmission 13
The author discusses the problem of designing a four-bar linkage with a given velocity ratio and a maximum angle of transmission.

Levitakiy, N.I. [Doctor of Technical Sciences]. Synthesis of Link Mechanisms 18
The author presents a simplified and accurate method of synthesizing types of linkages.

Bessonov, A.P. [Candidate of Technical Sciences]. Investigating the Motion of a Vibratory Mechanism With a Weak Spring as a System With Two Degrees of Freedom 34
The author investigates the motion of a vibratory mechanism with a small restoring force.

Card 3/4

Transactions of the Institute (Cont.)

SOV/2564

Fusset, L.A. [Candidate of Technical Sciences]. Methods of
Calculating the Nonuniformity of Tape Movement in Tape-
feeding Mechanisms

52

AVAILABLE: Library of Congress

Card 4/4

GO/mg
12-7-59

LEVITSKIY, N. I.

N. I. Levitskiy, "On the Synthesis of Six-Link Mechanisms having Lower Element Pairs."

paper presented at the 2nd All-Union Conf. on Fundamental Problems in the Theory of Machines and Mechanisms, Moscow, USSR, 24-28 March 1958.

LEVITSKIY, N.I.

Synthesis of linkworks. Trudy Inst.mash.Sem.po teor.mash.18
no.69:18-33 '58. (MIRA 12:5)
(Mechanical movements)

RAYEVSKIY, Nikolay Petrovich, kand.tekhn.nauk; ARTOBOLEVSKIY, I.I.,
akademik, otv.red.; BLAGONRAVOV, A.A., akademik, red.; BRUYKOVICH,
N.G., akademik, red.; DIKUSHIN, V.I., akademik, red.; SERENSEN,
S.V., akademik, red.; PINEGIN, S.V., prof., doktor tekhn.nauk,
red.; LEVITSKIY, N.I., prof., doktor tekhn.nauk, red.; KOBRIN-
SKIY, A.Ye., doktor tekhn.nauk, red.; BESSONOV, A.P., kand.tekhn.
nauk, red.; BELIANIN, P.N., red.izd-va; ASTAP'YEVA, G.A., tekhn.
red.

[Indicators of mechanical parameters of machines] Datchiki
mekhanicheskikh parametrov mashin. Moskva, Izd-vo Akad.nauk
SSSR, 1959. 186 p. (MIRA 13:1)

1. AN USSR (for Serensen).
(Measuring instruments)

(Machinery--Testing)

DIMENTBERG, Fedor Menas'yevich, doktor tekhn.nauk; SERENSEN, S.V., akademik, otv.red.; ARTOBOLYVSKIY, I.I., akademik, otv.red.; BLAGONRAVOV, A.A., akademik; red.; BRUYEVICH, N.G., akademik; red.; DIKUSHIN, V.I., akademik, red.; PINEGIN, S.V., prof., doktor tekhn.nauk, red.; LEVITSKIY, N.I., prof., doktor tekhn.nauk, red.; KOBRINSKIY, A.Ye., doktor tekhn.nauk, red.; RAYEVSKIY, N.P., kand.tekhn.nauk, red.; BESSONOV, A.P., kand.tekhn.nauk, red.; MELEYEV, A.S., red.isd-wa; KUZ'MIN, N.K., tekhn.red.; MAKUNI, Ye.V., tekhn.red.

[Bending vibrations of revolving shafts] Isgibnye kolebaniia vrashchaliushchikhsia valov. Moskva, Izd-vo Akad.nauk SSSR, 1959. 246 p.

1. Akademiya nauk USSR (for Serensen).
(Vibration) (Shafting)

ARTOBOLVSKIY, Ivan Ivanovich, akademik; LEVITSKIY, N.I., prof., doktor tekhn.nauk, otv.red.; BLAGONRAVOV, A.A., akademik, red.; BRUYEVICH, N.G., akademik, red.; DIKUSHIN, V.I., akademik, red.; SERENSEN, S.V., akademik, red.; PINEGIN, S.V., prof., doktor tekhn.nauk, red.; DIMENTBERG, F.M., doktor tekhn.nauk, red.; KOBRINSKIY, A.Ye., doktor tekhn.nauk, red.; RAYEVSKIY, N.P., kand.tekhn.nauk, red.; BESSONOV, A.P., kand.tekhn.nauk, red.; PERLYA, Z.N., red.izd-va [deceased]

[Theory of mechanisms for reproduction of flat curves] Teoriia mekhanizmov dlia vosproizvedeniia ploskikh krivyykh. Moskva, Izd-vo Akad.nauk SSSR, 1959. 253 p. (MIRA 12:8)

1. AN USSR (for Serensen).
(Drawing instruments)

LEVITSKIY N. I.

CHERKUDINOV, Sergey Aleksandrovich; ARTOBOLIVSKIY, I.I., akademik, otv.red.; BLAGOMRAVOV, A.A., akademik, otv.red.; BRUYZVICH, N.G., akademik, red.; DIKUSHIN, V.I., akademik, red.; SERESENS, S.V., akademik, red.; PINEGIN, S.V., prof., doktor tekhn.nauk, red.; LEVITSKIY, N.I., prof., doktor tekhn.nauk, red.; DIMENTBERG, F.M., doktor tekhn.nauk, red.; KOBRINSKIY, A.Ye., doktor tekhn.nauk, red.; RAYEVSKIY, N.P., kand.tekhn.nauk, red.; BESSONOV, A.P., kand.tekhn.nauk, red.; KUDASHEV, A.I., red.izd-va; ASTAF'YEVA, G.A., tekhn.red.

[Synthesis of flat hinged-lever mechanisms; problems on the reproduction of a continuous function on a given section]
 Sintez ploskikh sharnirno-rychazhnykh mekhanizmov; zadachi o vosproizvedenii nepreryvnoi funktsii na zadannom oteske.
 Moskva, Izd-vo Akad.nauk SSSR, 1959. 321 p. (MIRA 13:1)

1. AN USSR (for Serensen).
 (Machinery, Kinematics of)

Levitskiy, N. T.

PHASE I BOOK EXPLOITATION SOV/2383

25(1)

Akademiya nauk SSSR. Komissiya po tekhnologii mashinostroyeniya. Avtomatizatsiya mashinostroyeniya (Automation of Machine-Building Processes). Vol. 1. Drives and Control Systems for Process Machines. Moscow, Izd-vo AN SSSR, 1959. 370 p. Errata slip inserted. 5,000 copies printed.

Ed.: V. I. Dikushin, Akademik; Ed. of Publishing House: D. M. Ioffe; Tech. Ed.: I. P. Kuz'min.

PURPOSE: This book is intended for engineers dealing with automation of various machine-building processes.

COVERAGE: This is the second volume of transactions of the second Conference on Overall Mechanization and Automation of Manufacturing Processes held September 25-29, 1956. The presentation of the results of the first dealing with automation of machine-building processes consists of three parts. The subjects discussed include engineering measuring methods. The subjects discussed include automatic control of dimensions of machined parts. Inspection methods for automatic production lines, in-process inspection devices, application of electronics in automating linear measuring processes, and machines for automatic inspection of bearing races. The second part deals with automatic drives and control systems for process machinery; of metal-cutting machines tools, reliability of relay systems, application of gas-tube frequency converters in the control of induction motor speeds, magnetic amplifiers and their use in automatic systems, hydraulic drives, and ultrasonic vibrators. Part three deals with mechanisms of automatic machines and automatic production lines. Geneva-wheel-type mechanisms, friction linkage, indexing, loading devices, diaphragm-type pneumatic drives, automatic auxiliary devices for automatic production lines, various methods of design and accuracy of design. No personalities are mentioned. There are no references.

CONTENTS: 1. Ye. Zhelezovskiy. Automatic Control of Dimensions in Machine Building 3

2. A. K. Kuznetsov. Determining Optimum Conditions for Controlling the Mean Diameter of Machined Parts 9

3. L. A. Kuznetsov. Inspection Methods for Automatic Production Lines 29

4. D. V. Dvornitskiy. Standard Devices for Active Control 39

5. V. S. Vukobratov. Application of Electronics in Automating Linear Measuring Methods 45

6. L. A. Kuznetsov. Metrological and Statistical Checking of Some Automatic Inspection and Sorting Systems 53

7. Shitov, G. A.; Ye. M. Dyakshin. Experience Gained in Developing Machines for Automatic Inspection of Bearing Races 62

8. R. V. R. Digital Computers in Automatic Control of Processes 75

9. E. A. Kuznetsov. Some Problems Concerning Digital Control of Metal-Cutting Machine Tools 88

10. Z. A. Kuznetsov and I. A. Vukobratov. Designing Digital Control Systems for Machine Tools 96

11. S. A. Kuznetsov. Problems Concerning the Reliability of Relay Systems 107

12. L. A. Kuznetsov. Application of Gas Tube Frequency Converters in the Control of Induction Motor Speeds by the Frequency Method 117

13. M. A. Kuznetsov. Controlled Electric Drive for Metal-Cutting Machines 120

14. L. A. Kuznetsov. Development of the Theory of Mechanisms of Automatic Machines 203

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LEVITSKIY, N.I.

25(2)

PHASE I BOOK EXPLOITATION

304/2985

Artobolevskiy, Ivan Ivanovich, Nikolay Ivanovich Levitskiy, and
Sergey Aleksandrovich Cherkudinov

Sintez ploskikh mekhanizmov (Synthesis of Planar Mechanisms)
Moscow, Fizmatgiz, 1959. 1084 p. 10,000 copies printed.

Ed.: A. Ye. Kobrinskiy; Tech. Ed.: N. Ya. Murashova.

PURPOSE: The book is intended for scientific research workers,
engineers, designers, Lecturers, and students in advanced courses
at schools of higher technical education.

COVERAGE: The book discusses exact and accurate methods of the
synthesis of mechanisms. Problems solved by algebraic methods
are distinguished from problems solved by geometrical methods.
In some cases suggestions are made for the application of the method
being discussed to particular space mechanisms. The uses of
general methods of synthesis are illustrated by examples. A
list of basic literature is presented. It includes works
published up to 1957. The Introduction contains historical and
bibliographical information on the development of the theory

Card 1-40

ARTOBOLYEVSKIY, I.I., akademik, otv.red.; BYSTRITSKAYA, V.V., inzh., red.;
ARTOBOLYEVSKIY, S.I., prof., doktor tekhn.nauk, red.; BARANOV,
G.G., prof., doktor tekhn.nauk, red.; BESSONOV, A.P., kand.tekhn.
nauk, red.; GAVRILENKO, V.A., prof., doktor tekhn.nauk, red.;
KOBZINSKIY, A.Ye., doktor tekhn.nauk, red.; LEVITSKIY, N.I., prof.,
doktor tekhn.nauk, red.; RESHETOV, L.N., prof., doktor tekhn.nauk,
red.; MOSEV, B.I., tekhn.red.

[Theory of transmissions in machinery] Teoriya peredach v mashinakh;
sbornik statei. Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit.
lit-ry, 1960. 172 p. (MIRA 13:12)

1. Vsesoyuznoye soveshchaniye po osnovnym problemam teorii mashin
i mekhanizmov. 2d.
(Machinery) (Power transmission)

GERTS, Yelena Vasil'yevna; KREYNIN, German Vladimirovich; ARTOBOLLEVSKIY, I.I., akademik, otv.red.; BLAGONRAVOV, A.A., akademik, red.; BRUYEVICH, N.G., akademik, red.; DIKUSHIN, V.I., akademik, red.; SMRENSSEN, S.V., akademik, red.; PINEGIN, S.V., doktor tekhn.nauk, red.; LEVITSKIY, N.I., prof., doktor tekhn.nauk, red.; DIMENTBERG, F.M., doktor tekhn.nauk, red.; KOBRINSKIY, A.Ye., doktor tekhn.nauk, red.; RAYEVSKIY, P.P., kand.tekhn.nauk, red.; BESSONOV, A.P., kand.tekhn.nauk, red.; GORSHKOV, G.B., red.izd-va; MAKOGONOVA, I.A., tekhn.red.

[Theory and design of pneumatic power devices] Teoriia i raschet silovykh pnevmaticheskikh ustroystv. Moskva, Izd-vo Akad.nauk SSSR, 1960. 177 p. (MIRA 14:2)

1. AN USSR (for Serensen).
(Pneumatic machinery)

ARTOBOLVSKIY, I.I., akademik, otv.red.; ARTOBOLVSKIY, S.I., prof.,
doktor tekhn.nauk, red.; BARANOV, G.G., prof., doktor tekhn.nauk,
red.; BESSONOV, A.P., kand.tekhn.nauk, red.; GAVRILENKO, V.A.,
prof., doktor tekhn.nauk, red.; KOBRINSKIY, A.Ye., doktor tekhn.
nauk, red.; LEVITSKIY, M.I., prof., doktor tekhn.nauk, red.;
RESHETOV, L.N., prof., doktor tekhn.nauk, red.; BYSTRITSKAYA, V.V.,
inzh., red.; MODEL', B.I., tekhn.red.

[The theory of automatic machines and the theory of precision in
the manufacture of machinery and instruments] Teoriya mashin avto-
matischeskogo deistviya i teoriya tochnosti v mashinostroyeni i pri-
borostroyeni; sbornik statei. Moskva, Gos.nauchno-tekhn.izd-vo
mashinostroyit.lit-ry, 1960. 218 p. (MIRA 13:7)

1. Vsesoyuznoye soveshchaniye po osnovnym problemam teorii mashin
i mekhanizmov. 2d, Moscow, 1958.
(Machinery, Automatic) (Machinery industry)
(Instrument manufacture)

ARTOBOLNYSKIY, I.I., akademik, otv.red.; ARTOBOLNYSKIY, S.I., prof.,
doktor tekhn.nauk, red.; BARANOV, G.G., prof., doktor tekhn.
nauk, red.; BESSONOV, A.P., kand.tekhn.nauk, red.; GAVRILENKO,
V.A., prof., doktor tekhn.nauk, red.; KOBRINSKIY, A.Ye., doktor
tekhn.nauk, red.; LEVITSKIY, M.I., prof., doktor tekhn.nauk,
red.; MESHKINOV, L.M., prof., doktor tekhn.nauk, red.; BELYKH,
L.V., kand.tekhn.nauk, red.; MODUL', B.I., tekhn.red.

[Dynamics of machinery] Dinamika mashin; sbornik statei. Moskva,
Gos.nauchno-tekhn.isd-vo mashinostroit.lit-ry, 1960. 238 p.
(MIRA 13:8)

1. Vsesoyuznoye soveshchaniye po osnovnym problemam teorii mashin
i mekhanizmov. 2n, Moscow, 1958.
(Machinery) (Mechanical movements)

LEVITSKIY, N.; MAGAZINER, Z.

Method of analyzing hidden potentialities of labor productivity in an assembly-line production workshop. *Biul.nauch.*
inform: trud i zar.plata 3 no.2:12-21 '60.

(MIRA 13:6)

(Instrument industry--Labor productivity)

LEVITSKIY, N.I.; TSUKHANOVA, Ye.A.

Selecting the braking principle for hydraulic drives.
Trudy Inst. mash. Sem. po teor. mash. 20 no. 22:5-11 '60.
(MIRA 13:12)

(Oil hydraulic machinery--Brakes)

LEVITSKIY, N.I.

PHASE I BOOK EXPLANATION

SOV/5734

Akademiya nauk SSSR. Institut mashinovedeniya. Seminar po teorii mashin i mekhanizmov.

Trudy, t. 21, vyp. 83-84 (Academy of Sciences of the USSR. Institute of Machine Science. Seminar on the Theory of Machines and Mechanisms. Transactions) v.21, nos. 83-84. Moscow, Izd-vo AN USSR, 1961. 161 p. Errata slip inserted. 2000 copies printed.

Sponsoring Agency: Akademiya nauk SSSR.

Editorial Board: Resp. Ed.: I.I. Antobolevskiy, Academician, G.O. Baranov, Professor, Doctor of Technical Sciences; N.L. Bryukhovskiy, Doctor of Technical Sciences; V.A. Gavrilenko, Professor, Doctor of Technical Sciences; V.A. Zinov'ev, Professor, Doctor of Technical Sciences; A.Ye. Kobrinskiy, Doctor of Technical Sciences; N.I. Levitskiy, Professor, Doctor of Technical Sciences; N.P. Rayevskiy, Doctor of Technical Sciences; L.N. Rashe-
tov, Professor, Doctor of Technical Sciences; and M.A. Skuridin,

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Seminar on the Theory (Cont.)

SOV/5734

Professor, Doctor of Technical Sciences; Ed. of Publishing House: A.A. Demidenko; Tech. Ed.: S.G. Tikhomirova.

PURPOSE: This collection of articles is intended for scientific research workers and designers in the fields of machine and mechanism dynamics.

COVERAGE: The articles in No. 83 discuss the following: developments and achievements in the field of machine and experimental dynamics, including vibrations and vibratory impact; investigations in the theory of intermittent motions; differential equations for describing the joint motion of mechanical (disbalancing) vibrators; investigations into the dynamics and stability of periodic regimes of motion in vibratory-impact systems; an attempt to find an approximate periodic solution of a second-order nonlinear differential equation; and results of the application of electronic analog computers in analyzing the operation of rolling mills. No. 84 includes articles on the following: an analytical

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Seminar on the Theory (Cont.)

SOV/5734

method for determining the positions of three-dimensional multiple-link mechanisms composed of three-dimensional kinematic groups with lower kinematic pairs; an analytical method for determining the parameters of the simplest hinged linkage with two degrees of freedom; a general method for investigating three-dimensional gearings; the effect of dry-friction dampers on vibrations in railway vehicles; and the utilization of Burmester's curves for determining the parameters of a multiple-link hinged linkage with a dwell. No personalities are mentioned. References accompany individual articles. There are 260 references: 212 Soviet, 31 English, 16 German, and 1 French.

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Foreword

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MILOVIDOV, Sergey Sergeyevich, prof., zasl. deyatel' nauki i tekhniki
RSFSR; RUDEKHO, H.F., prof., doktor tekhn. nauk, retsenzent;
~~LEVITSKIY, N.I., prof., doktor tekhn. nauk, retsenzent;~~
~~GUZENKOV, P.G., dots., kand. tekhn. nauk, retsenzent;~~ SHELKOV,
N.I., red.; MURASHOVA, V.A., tekhn. red.

[Machine parts] Detali mashin. Moskva, Gos. izd-vo "Vysshaya
shkola," 1961. 613 p. (MIRA 15:4)

1. Rukovoditel' kafedry detaley mashin Vsesoyuznogo zaochnogo
politekhnikheskogo instituta (for Levitskiy).
(Mechanical engineering)

LEVITSKIY, N.I.

Approximate synthesis of linkages with two degrees of freedom. Trudy
Inst.mash. Sem. po teor.mash. 21 no.83-84:103-112 '61.

(MIRA 14:6)

(Links and link motion)

LEVITSKIY, N.I.

V.V. Dobrovol'skii's works and the modern theory of mechanisms
(on the occasion of V.V. Dobrovol'skii's 80th birthday).
Trudy Inst.mash.Sem.po teor.mash. 22 no.87:69-79 '61. (MIRA 14:8)
(Dobrovol'skii, Vladimir Vladimirovich, 1880-)

S/030/62/000/002/003/008
B105/B110

AUTHOR: Levitskiy, N. I., Doctor of technical Sciences

TITLE: Development of the synthesis of mechanisms

PERIODICAL: Akademiya nauk SSSR. Vestnik, no. 2, 1962, 44 - 48

TEXT: Two examples from the experience in the synthesis of mechanisms gained at the Institut mashinovedeniya (Institute of the Science of Machines) are mentioned: (1) Laboratoriya mekhanizmov mashin-avtomatov i avtomaticheskikh liniy Instituta mashinovedeniya (Laboratory for the mechanisms of automatic machines and lines of the Institute of Sciences of Machines) recommended that linkages should be used instead of the absolute cam mechanisms. Thus the admissible 300 rpm could be increased to 536 rpm. The linkages were suggested by P. L. Chebyshev (1889) whose models are at the Otdeleniye tekhnicheskikh nauk Akademii nauk SSSR (Department of Technical Sciences of the Academy of Sciences USSR). (2) In collaboration with the Stankostroitel'nyy zavod im. S. Ordzhonikidze (Machine Tool Factory im. S. Ordzhonikidze) methods of hydraulic braking for transporters of automatic lines were developed with which the velocity of the transporter Card 1/2

LEVITSKIY, N.I., doktor tekhn.nauk

Development of the synthesis of mechanisms. Vest. AN SSSR 32
no.2:44-48 F '62. (MIRA 15:2)

(Mechanics)

GUZENKOV, Petr Georgiyevich; LEVITSKIY, N.I., doktor tekhn. nauk,
prof., otv. red.; ARTEMOVA, T.I., red.izd-va;
KULASHNIKOV, V.P., tekhn. red.

[Plastics in the machinery industry and plastic machine
parts] Plastmassy v mashinostroenii i detali mashin iz
plastmass; lektsiia. Moskva, Vses. zaochnyi politekhniche-
skii in-t, 1961. 52 p. (Plastics) (MIRA 16:9)
(Machinery--Design and construction)

EDILYAN, Marat Bagratovich; LEVITSKIY, N.I., red.; AKHIRYAN, Ye.,
tekhn. red.

[Use of electronic digital computers in the synthesis of
guiding mechanisms] Primenenie elektronnykh tsifrovyykh mashin
dlya sinteza napravlyaiushchikh mekhanizmov. Erevan, Armgos-
izdat, 1963. 73 p. (Automatic control) (MIRA 16:9)
(Electronic digital computers)

ARTOBOLVSKIY, I.I., akademik, red.; LEVITSKIY, N.I., doktor tekhn. nauk, prof., red.; KOZHEVNIKOV, S.N., red.; KOBRINSKIY, A.Ye., doktor tekhn. nauk, red.; PETROKAS, L.V., doktor tekhn. nauk, red.; GAVRILENKO, V.A., doktor tekhn. nauk, red.; BESSONOV, A.P., kand. tekhn. nauk, red.; GRODZENSKAYA, L.S. kand. tekhn. nauk, red.; MERENSKAYA, I.Ya., red.izd-va; UVAROVA, A.F., tekhn. red.

[Analysis and synthesis of mechanisms] Analiz i sintez mekhanizmov; sbornik statei. Moskva, Mashgiz, 1963. 234 p.
(MIRA 16:9)

1. Soveshchaniye po osnovnym problemam teorii mashin i mekhanizmov. 3d, Moscow, 1961. 2. Chlen-korrespondent AN Ukr.SSR (for Kozhevnikov).

(Mechanisms)

GERT, Ye.V.; LEVITSKY, N.I.; TSUKHANOVA, Ye. A. (Moscow)

"Theory of pneumatic and hydraulic systems of automatic machines".

report presented at the 2nd All-Union Congress on Theoretical and Applied Mechanics, Moscow, 29 Jan-5 Feb 64.

ARTOBOLVSKIY, I.I.; VIL'DT, Ye.O.; GRODZENSKAYA, L.S.; GUDMAN, T.P.;
LEVITSKIY, N.I.; KHARTENBERG, R.S.

Kinematics of mechanisms; German-English-Russian termino-
logical dictionary. Teor. mash. i mekh. no.94/95:54-68
'63. (MIRA 16:11)

LEVITSKIY, N.I.; RESHETOV, L.N., doktor tekhn. nauk, prof.,
retsensent

[Cam mechanisms] Kulachkovye mekhanizmy. Moskva, Izd-
vo "Mashinostroenie," 1964. 286 p. (MIRA 17:5)

14

ARTOBOLEVSKIY, I.I., akademik, doktor tekhn. nauk, red.; LEVITSKIY, N.I., doktor tekhn. nauk, prof., red.; KOZHEVNIKOV, S.N., red.; KOBRINSKIY, A.Ye., doktor tekhn. nauk, red.; PETROKAS, L.V., doktor tekhn. nauk, prof., red.; GAVRILENKO, V.A., doktor tekhn. nauk, prof., red.; BESSONOV, A.I., kand. tekhn. nauk, red.; SHEKHVITS, E.I., kand. tekhn. nauk, red.

[Theory of automatic machines and of hydraulic and pneumatic drives] Teoriia mashin-avtomatov i gidro-pnevmoprivoda; sbornik statei. Moskva, Mashgiz, 1963. 327 p. (Its: Trudy)

(MIRA 17:10)

1. Soveshchaniye po osnovnym problemam teorii mashin i mekhanizmov. 3d, Moscow, 1961. 2. Chlen-korrespondent AN UkrSSR (for Kozhevnikov).

POPOV, N.H.; LEVITSKIY, N.I., doktor tekhn. nauk, prof.,
retsensent; USKOV, M.K., inzh., red.

[Design of cam gears] Raschet i proektirovaniya zubech-
kovykh mekhanizmov. Moskva, Mashinostroyeniye, 1965. 363 p.
(MIRA 18:1)

GEITS, Ye.V.; LEVITSKIY, N.I.; TISHCHENKOVA, Ye.A.

Theory of pneumatic and hydraulic mechanisms of automatic
machines. Teor. mach. i mekh. no.107/108:46-52 '65. (MIRA 18:7)

LEVITSKIY, N.I., doktor tekhn. nauk, prof., otv. red.

[Theory of mechanisms; basic concepts: terminology]
Teoriia mekhanizmov; osnovnye poniatia: terminologiya.
Moskva, Nauka, 1964. 22 p. (Sbornik rekomenduemykh terminov, no.68) (IRA 18:7)

1. Akademiya nauk SSSR. Komitet nauchno-tekhnicheskoy terminologii.

LEVITSKIY, N.I., doktor tekhn. nauk prof., otv. red.; BLAGONRAVOV, A.A., akademik, red.; BESSONOV, A.P., doktor tekhn. nauk, red.; DIMENTBERG, F.M., doktor tekhn. nauk, prof., red.; ZINOV'YEV, V.A., doktor tekhn. nauk, prof., red.; KOBRINSKIY, A.Ye., doktor tekhn. nauk, red.; CHERKUDINOV, S.A., doktor tekhn. nauk, red.

[Current problems in the theory of machines and mechanisms] Sovremennye problemy teorii mashin i mekhanizmov. Moskva, Nauka, 1965. 342 p. (MIRA 19:1)

1. Moscow. Gosudarstvennyy nauchno-issledovatel'skiy institut mashinovedeniya.

LEVITSKIY, N.K.; BIKCHENTAY, M.A., redaktor; VERINA, G.P., tekhnicheskiy redaktor.

[Organization of train dispatching on industrial railroad lines]
Organisatsiia dispetcherskogo rukovodstva na promyshlennom shelesnodorozhnom transporte. Moskva, Gos. transp. shel-dor. izd-vo, 1953. 143 p.
[Microfilm] (MIRA 7:11)

(Railroads--Train dispatching)

LEVITSKIY, N.K., insh.

Accelerating the circulation of freight cars. Bul. TSNIIICM no.3:
69-73 '58. (MIRA 11:5)

(Railroads, Industrial—Freight)

LEVITSKIY, N.K., inzh.

Calculating intervals between car deliveries to sidings. Vest. TSNII MPS
no. 1:47-49 F '59. (MIRA 12:3)

(Railroads--Freight cars)

LEVITSKIY, N. K., Cand Tech Sci -- (diss) "Research into problems of the interaction in the performance of stations of approach lines in plants involved with ferrous metallurgy." Moscow, 1960. 17 pp; (All-Union Scientific Research Inst of Railroad Transport); 150 copies; free; (KL, 24-60, 132)

LEVITSKIY, N.K., inzh.

Coordinating uniform procedures with the routing of freight. Trudy
TSNII MPS no. 196:198-215 '60. (MIRA 14:5)
(Railroads---Freight) (Railroads---Making up trains)

LEVITSKIY, N.K.; KOCHETOV, V.Ya.; DRUZHININ, K.F.; PETROVA, V.L.,
red.; VOROTNIKOVA, L.F., tekhn. red.

[Organization of intraplant railroad transportation in machinery
plants] Organizatsiia vnutrizavodskikh zheleznodorozhnykh pe-
revozok na zavodakh mashinostroeniia. Moskva, Vses. izdatel'sko-
poligr. ob"edinenie M-va putei soobshcheniia, 1961. 33 p.

(MIRA 15:3)

(Machinery industry) (Railroads, Industrial)

LEVITSKIY, N.K.; MIRONOVICH, N.D., inzh., retsenzents; DLUGACH,
B.A., kand. tekhn. nauk, red.; VOROTNIKOVA, L.P., tekhn.
red.

[Dispatching management on industrial railroads] Dispetcher-
skoe rukovodstvo na promyshlennom zheleznodorozhnom trans-
porte. Izd.2., perer. i dop. Moskva, Izd-vo "Transport,"
1964. 158 p. (MIRA 17:3)

L 40353-66 EWP(j)/EWT(m)/T IJP(c) RM/NW/DJ

ACC NR: AP6027279

(A)

SOURCE CODE: UR/0191/66/000/008/0031/0032

AUTHOR: Kobzova, R. I.; Oparina, Ye. M.; Levkina, N. K.

ORG: none

TITLE: Stabilization of polysiloxanes by cerium complexes¹

SOURCE: Plasticheskiye massy, no. 8, 1966, 31-32

TOPIC TAGS: ~~silicone~~, antioxidant additive, cerium compound, POLYSILOXANE, OXIDATION INHIBITOR, THERMAL STABILITY

ABSTRACT: A new, highly effective cerium-complex thermal-oxidation inhibitor has been developed for polysiloxanes. The inhibitor increased the thermal stability (criterion, gelation time) of PMS-100 polydimethylsiloxane fluid by a factor of 250 at 250C and of almost 200 at 300C. The additive was soluble in the polysiloxane and did not precipitate on cooling to minus 60C. The inhibitor was a mixture of cerium p-toluate and N,N'-disalicylidene-1,2-propanediamine (forming a complex) taken in 1/18 molar ratio. It was used in doses equivalent to 0.025, 0.05, and 0.075% Ce in the silicone fluid. To ensure solubility, the silicone fluid was added to a toluene solution of the inhibitor, after which the toluene was stripped off to 275C with sparging of air. It is suggested that under these conditions the inhibitor molecule becomes part of the silicone backbone just as was the case with previously studied titanium chelates. Orig. art. has: 3 tables. [SM]

SUB CODE: 11/ SUBM DATE: none/ ORIG REF: 004/ OTH REF: 006/ ATD PRESS: 5052
Card 1/1 UDC: 678.84:678.848.9:546.655-388

LEVITSKIY, N.N., SHAKHBAZIAN, K.Kh.

Analytical method of designing spatial four-bar linkages with two rotating and two ball couples. Izv. Ak. Arm. S.S.R. Ser. fiz.-mat. nauk (MLRA 10:9)

(Links and link-motion)

ACC NR: AP5026544

EW(m) WW

SOURCE CODE: UR/0286/65/000/019/0087/0087

AUTHORS: Levitskiy, N. P.; Yefimov, Yu. A.

ORG: none

TITLE: Pulsed pressure gauge. Class 42, No. 175277

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 19, 1965, 87

TOPIC TAGS: pressure gage, pressure measuring instrument, vibration frequency

ABSTRACT: This Author Certificate presents a pulsed pressure gauge consisting of a casing and a sensitive element (see Fig. 1). To increase its resistance to high

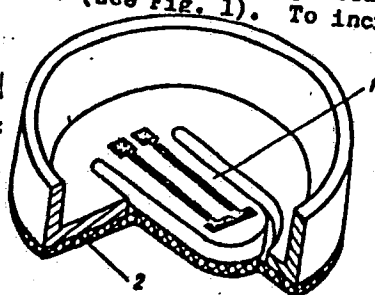


Fig. 1. 1- bracket;
2- polymer film
seal

Card 1/2

UDC: 531.387
CIA-RDP86-00513R000929630004-8

L 7970-00

ACC NR: AP5026544

temperature and its specific vibration frequency, the sensitive element is formed as a bracket in a slit at the bottom part of the gauge casing. The slit is sealed by a polymer film. Orig. art. has: 1 figure.

SUB CLDE: IE/

SUBM DATE: 30Dec63

BC
Card 2/2

ACC NR: AP7000347

SOURCE CODE: UR/0413/66/000/022/0111/0111

INVENTOR: Levitskiy, N. P.

ORG: none

TITLE: Wind-tunnel balance. Class 42, No. 188722

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 22, 1966, 111

TOPIC TAGS: aerodynamic sealing, wind tunnel instrumentation, aerodynamic test

ABSTRACT: This Author Certificate introduces a wind tunnel balance which contains elastic balance elements of moments and forces, and also an inductive pickup.

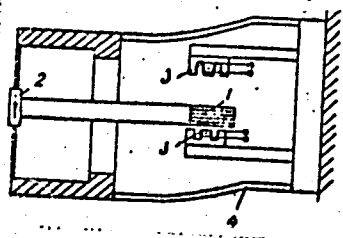


Fig. 1.

1 - Armature of inductive pickup; 2 - balance element of moments; 3 - coils; 4 - balance element of forces.

Card 1/2

UDC: 681.269.97

ACC NR: AP7000347

The armature of the inductive pickup is mounted on the movable section of the balance element of moments, while the coils are loosely mounted on the base of the balance element of forces. This arrangement transfers the center of coordinates to the center of elasticity of the balance element of moments and increases sensitivity (see Fig. 1). Orig. art. has: 1 figure.

SUB CODE: 14, 20/ SUBM DATE: 03Jul63/ ATD PRESS: 5108

Card 2/2

LEVITSKIY, N. Z.

Processes and Properties Index

Piston rings. N. Z. Levitskiy. U.S.S.R. 65,833, Feb. 28, 1949. Piston rings are made of a graphitized steel contg. approx. C 1.5-1.65, Mn 0.20-0.40, Si 0.70-0.95, S not more than 0.025, P not more than 0.009, Cr not more than 0.08, Ni up to 0.20%, and the rest Fe. M. II.

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

62-12-12

ЛЕВИТСКИЙ, Н. З.

LEVITSKIY, N. Z.

New process of casting two-layer bushings. Lit. proizv. no. 9:28-29
S'55. (MIRA 8:12)

(Brass founding)

LEVITSKIY, N. Z.

137-58-3-5916

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 3, p 208 (USSR)

AUTHOR: Levitskiy, N. Z.

TITLE: The Nature of the Bonding Strength Between Two Layers of
Metal (Priroda prochnosti stsepleniya dvukh sloyev metalla)

PERIODICAL: Tr. Azerb. n.-i. in-t neft. mashinostr., 1956, Nr 1, pp
230-246

ABSTRACT: The method of casting two-layer articles with cast iron as the base was studied on cylindrical shells 150 mm long and with an internal diameter of 110 mm made of cast iron of the following composition: 3.1 percent C, 0.6 percent Mn, 1.9 percent Si, 0.08 percent P, and 0.15 percent S. Bronze (B) of the OTsS-5-5-3 type, which served as the lining material, was placed into the shell in an amount sufficient to produce a 5 mm coating, and the shell was sealed with end plates which were welded on at both ends. The enclosed shell heated in a furnace until the melting point of the B was attained; it was then secured in a lathe where it was revolved until the B solidified. Specimens cut from the experimental sleeve bushings were microanalyzed and subjected to tests in order to establish the magnitude of the bonding

Card 1/2

137-58-3-5916

The Nature of the Bonding Strength Between Two Layers of Metals

strength between the two metal layers. Complete bushings were also subjected to such tests. Metallographic analysis proved that the graphite found in the cast iron near the boundary of the B layer is leached out during the process described. Liquid B penetrates into the interstices previously occupied by the graphite and forms inclusions that are visible under a microscope. These B inclusions, which have become fused onto the walls of the interstices, form a series of "dove-tails" and thus improve the mechanical bonding between the layers. A decrease in carbon content is also observed in the cast iron near the B boundary; this is explained by the partial decomposition of the cementite at high temperatures, as demonstrated by the appearance of a ferrite network. The low carbon content favors the process of diffusion of Cu in Fe. The presence of the diffusion process results in increased bonding strength. Bending tests performed on the specimens indicate that in the majority of cases the B layer does not peel off. The bonding strength, as determined by tests, is in excess of 225 kg/cm^2 in the case of complete bushings, and 200 kg/cm^2 in the case of specimens cut from complete bushings. On the basis of these investigations a novel technological process of casting bimetal bushings was developed and adapted for production.

G. K.

Card 2/2

LEVITSKIY, N.Z.; ALIYEV, K.T.

Increasing the strength of chill molds in casting cast-iron parts.
Sbor.nauch.-tekhn.inform.Azerb.inst.nauch.-tekhn.inform.Ser.Mashirostroil.
prom. no.1:37-43 '62. (MIRA 12:8)

1. Azerbaydzhanakiy nauchno-issledovatel'skiy institut neftyanogo
mashinostroyeniya.

1964

LEVITSKIY, N.Z.

DECEASED

1909-1964

1964

Biography

about - Death of Levitskiy, N.Z., 1964

LEVITSKIY, P.A.; HUBIN, Z.A., kandidat tekhnicheskikh nauk, dotsent,
redaktor; LEUTA, V.I., inzhener, redaktor; LYKHOTA, M.A., tekhnicheskiiy redaktor

[Organization of rhythmic work in a machine building plant] Organizatsiia ritmichnoi raboty mashinostroitel'nogo zavoda. Kiev, Gos.nauchno-tekhn.izd-vo mashinostroitel'noi lit-ry. Ukrainskoe otd-nie, 1955. 70 p. (MIRA 9:1)
(Machine-shop practice)

PLEKHNOVA, Mariya Il'inichna, USHKALO, Petr ikhaylovich; KARTAVOV, S.A.,
kandidat tekhnicheskikh nauk, retsenzent; LEVITSKIY, P.A., kandidat
tekhnicheskikh nauk, redaktor; SOROKA, M.S., redaktor izdatel'stva;
LYKHOTA, M.A., tekhnicheskiy redaktor

[Standardisation of technological processes under conditions of
independent production] Tipizatsiya tekhnologicheskikh protsessov
v usloviakh individual'nogo proizvodstva. Kiev, Gos.nauchno-tekhn.
izd-vo mashinostroit. lit-ry, 1956. 51 p. (MLRA 9:7)
(Efficiency, Industrial)

LEVITSKIY, PETR APOLLONOVICH

~~LEVITSKIY, Petr Apollonovich~~; AMELIN, O.S., veduchiy redaktor; PATSALYUK, P.,
tekhnichnyy redaktor

[Operational planning in machine shops engaged in production in
lots] Operativne planuvannia v mekhanichnykh tsakhakh seriinoho
vyrobnytstva. Kyiv, Derzh.vyd-vo tekhn.lit-ry URSR, 1957. 142 p.
(Machinery industry) (MIRA 10:9)

SOV/128-59-3-1/31

18(5)
AUTHOR:

Levitskiy, P.A., Engineer

TITLE:

Concentration, Specialization and Cooperation of
Foundry Production in the Khar'kov Economic Region

PERIODICAL:

Liteynoye Proizvodstvo, 1959, Nr 3, pp 1-3 (USSR)

ABSTRACT:

The author analyzes the concentration of foundry production according to the following standards of classification: low concentration level up to 9,500 medium from 9,501 to 30,000 and high over 30,000 tons of foundry products per year. The analysis shows the ratio of 3.3 : 8.1 : 88.6 between the high, medium and low concentration levels as to the number of foundry plants and the ratio of 48 : 24.6 : 27.4 as to the output in foundry products. Big-scale production and high degree of mechanization result in higher output per worker. The cost price of foundry products depends on many different factors, such as shape and weight, tolerances quality required, serialization, overhead expenses and accounting methods used. The author proceeds to analyze the cost price of foundry products with reference

Card 1/3

SOV/128-59-3-1/31

Concentration, Specialization and Cooperation of Foundry Production
in the Kharkov Economic Region

to the cost of charge and fuel (which do not depend), the manufacturing cost and the operating expense of the plant on the whole (which, obviously, do depend on the volume of production). The accountancy and production statistics in foundry shops have not been standardized yet, and the author suggests that the statistical production data should include (1) the ratio between the net weight of the foundry products and the weight of the charge as well as (2) the cost price per ton of net weight of foundry products. The specialization of foundry production can be differentiated along these lines: (1) manufacture of all kinds of parts for a group of certain products; (2) certain technological processes; (3) manufacture of certain parts, and (4) auxiliary production (production of special foundry equipment). The cooperation of the foundry production within the economic region (as opposed to the cooperation with foundry works in other regions) has been

Card 2/3

SOV/128-59-3-1/31

Concentration, Specialization and Cooperation of Foundry Production
in the Kharkov Economic Region

increased from 60.7 to 71.3% in gray cast iron and from
20.6 to 24.7% in steel casting. There are 3 tables
and 1 diagram

Card 3/3

LEVITSKIY, I.A.

SV/5/93

PHASE I WORK EXPLOITATION

1. PROBLEMS OF EXPLOITATION

Nauchno-tekhnicheskaya konferentsiya po razvitiyu proizvoditel'nykh sil Khark'ovskogo ekonomicheskogo upravliniynogo rayona, 1965.

Voprosy mashinostroyeniya: trudy konferentsii... (Problems of Machine Building: Transactions of the Scientific and Technological Conference on the Development of Productive Forces of the Khark'ov Economic Administrative Region) No. 3. Kiev, Izdatel'stvo Khark'ovskogo ekonomicheskogo upravliniynogo rayona, 1965. 160 p. 1,500 copies printed.

Sponsoring Agency: Akademiya nauk Ukrainy SSR. Soviet po inzheneriyu proizvoditel'nykh sil Ukrainy.

Editorial Board: Resp. Ed. I.A. Vasilenko, Academician of the Academy of Sciences of the USSR; A.A. Gorbunov, Corresponding Member, Academy of Sciences of the USSR; I.M. Postnikov, Doctor of Technical Sciences; S.M. Kutsenko, Ed. in Chief, Candidate of Technical Sciences; G.M. Davydov, Candidate of Technical Sciences; Ed. of Publishing House: S.D. Lepkyi, Tech. Ed. R.A. Bunty.

NOTE: This collection of articles is intended for scientific personnel, engineers, technicians, armament workers, and planning organizations.

CONTENTS: The articles deal with problems in technology and techniques in the manufacture of engines, hydraulic turbines, diesel locomotives, tractors, combines, electrical machinery, etc. Considerable attention is given to the following: the development of various types of equipment used for automation in the coal industry; equipment development for the production and use of rectifiers; development of new techniques for measuring and controlling heat-engineering parameters; and the introduction of advanced methods into foundry and die casting. No personalitis mentioned. References accompany each article. There are 20 references: 16 Soviet, 2 German, 1 French, and 1 English.

Glazov, G.M. [Sector of Technical Sciences at Khark'ov Polytechnical Institute]. The Present State of and Outlook for the Development of Engine Building 44

Koval', I.A. [Chief Designer at the GSNP (Gosudarstvennoye Spetsial'noye Konstruktivnoye Buro Dvigatelya - State Special Engine-Design Bureau) in the "Serp i Molot" Plant]. Work Done by the "Serp i Molot" Plant in Khark'ov and by its GSNP in the Design of New Tractor and Combine Engines 61

Kashba, B.P. [Chief Designer at the Khark'ovskiy traktorovyy zavod (Khark'ov Tractor Plant)]. The All-Purpose T-75 Caterpillar Tractor 68

Garf, M.K., and G.M. Kravchenko [Candidates of Technical Sciences at the Institute of Literature and Art, Khark'ov]. Institute of Planning at Khark'ov: Investigating the Dynamic Strength of Certain Constructions in the Tractor and Transportation Industries 75

Posadkov, I.M. [Doctor of Technical Sciences at the Institute of Electrotechnical Sciences at the Khark'ov Polytechnical Institute]. Basic Prospects for Research in the Field of Design of New Types of Electric Machinery 87

Perel'muter, M.M. [Candidate of Technical Sciences at the Khark'ov Branch of "Yuzhnelelektrifikatsiya"]. Prospects for the Development of Electric Drives 92

SV/5/93

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Serebrenik, V.Ya. [Chief Equipment Designer at the Khark'ovskiy elektromekhanicheskiy zavod (Khark'ov Electromechanical Plant)]. Trends in the Development of Electrical-Mechanical Industries at the Khark'ov Electromechanical Plant 99

Kashba, B.P. [Candidate of Technical Sciences at Javel Tractor Plant]. The Khark'ov Tractor Plant. Equipment for Automation in Tool Making 107

Gan'yan, Ya.F. [Engineer at the Khark'ov Branch of "Yuzhnelelektrifikatsiya"]. The Use of Mechanical Rectifiers in Electromechanical Plants. The Manufacture of Mechanical Rectifiers 110

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AVAILABLE: Library of Congress	

LEVITSKIY, P.A.

Specialisation and cooperation in the machinery manufacturing
of Kharkov, Trudy KhPI 22 no.2:3-7 '59. (MIRA 15:9)
(Kharkov--Machinery industry)

VAN, V.L.; LEVITSKIY, P.A., otv. za vypusk

[Principles of the organization of electric power using enterprises
in the U.S.S.R.; production process and types of manufacture] Prin-
tsipy organizatsii elektroenergeticheskikh predpriyatii v SSSR,
proizvodstvennyi protsess i ~~tipy~~ tipy proizvodstva; uchebnoe posobie po
kursu ekonomiki promyshlennosti i organizatsii proizvodstva. Khar'kov,
Politekhn. in-t im. V.I.Lenina, 1960. 22 p. (MIRA 14:9)
(Electric power production)